

Message

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**From:** McKim, Krista [mckim.krista@epa.gov]  
**Sent:** 2/23/2017 9:00:41 PM  
**To:** Maraldo, Dean [Maraldo.Dean@epa.gov]  
**Subject:** FW: Water Flowpath analysis from Minntac to surface waters  
**Attachments:** 2017-02-23\_GLIFWC\_Minntac-Pathlines-memo.pdf

fyi

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**From:** john.coleman [mailto:jcoleman@glifwc.org]  
**Sent:** Thursday, February 23, 2017 2:51 PM  
**To:** McKim, Krista <mckim.krista@epa.gov>  
**Subject:** Fwd: Water Flowpath analysis from Minntac to surface waters

FYI

----- Forwarded Message -----

**Subject:** Water Flowpath analysis from Minntac to surface waters  
**Date:** Thu, 23 Feb 2017 14:05:29 -0600  
**From:** john.coleman <jcoleman@glifwc.org>  
**To:** Smith, Erik (MPCA) <Erik.Smith@state.mn.us>  
**CC:** Pierard, Kevin <Pierard.Kevin@epamail.epa.gov>, Korleski, Christopher <korleski.christopher@epa.gov>, Cummins, Constance <ccummins@fs.fed.us>, Nancy Schuldt <NancySchuldt@FDLREZ.COM>, Jonathan Gilbert <jgilbert@glifwc.org>, Ann McCammon\_Soltis <amsoltis@glifwc.org>

Erik,

Attached is a technical memo re: flowpath analysis from the east berm and the eastern half of the north berm of the Minntac tailings basin. It looks at flowpaths of basin water through the berm to receiving surface waters. I hope it is useful in revision of the Minntac draft NPDES permit.

thanks,

john

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